

The SM2040-37 is a small, highly linear amplifier designed for multipurpose use in military and wireless applications. Operating from 2 to 4 GHz, the amplifier is suited for laboratory use as well as UMTS, ISM, MMDS, and WLL applications. Output power at P1dB is +37 dBm (min.) with a +47 dBm (min.) OIP3. Linear gain is 37 dB with  $\pm .75$  dB flatness across the entire frequency band. The unit operates from +12 Volts and consumes 2.9 Amps., (+10V operation is available). Dimensions are 5.0 x 2.5 x .563 inches.

Features include Mis-Match Protection, Single Power Supply Operation, Over Voltage Protection, Thermal Protection with Auto Reset, and Logic On/Off Control. The module is also available as a lab unit or in 19" rack mountable form.

### Features

- Mis-Match Protected
- Single Power Supply Operation
- Over Voltage Protection
- Thermal Protection with Auto Reset

### Options

- TTL Logic On/Off Control
- Heatsink
- +10VDC Operation

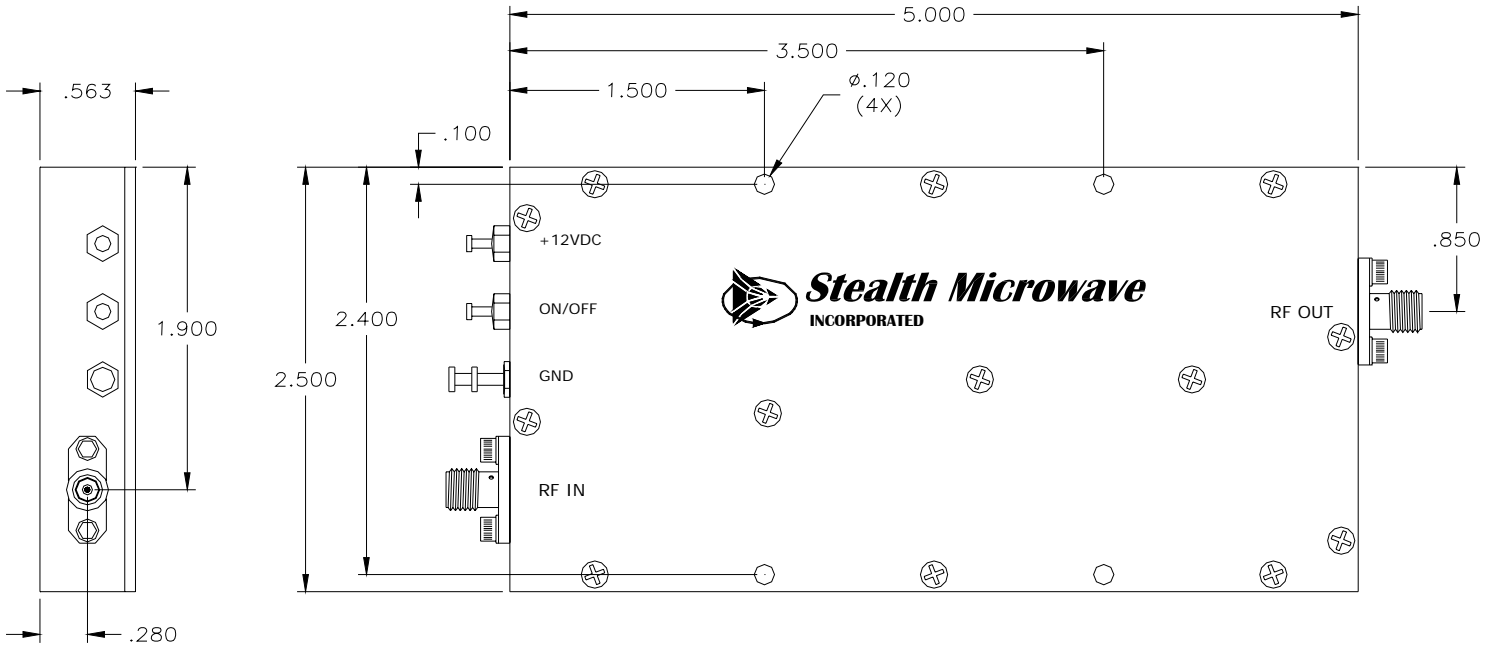
### Configurations

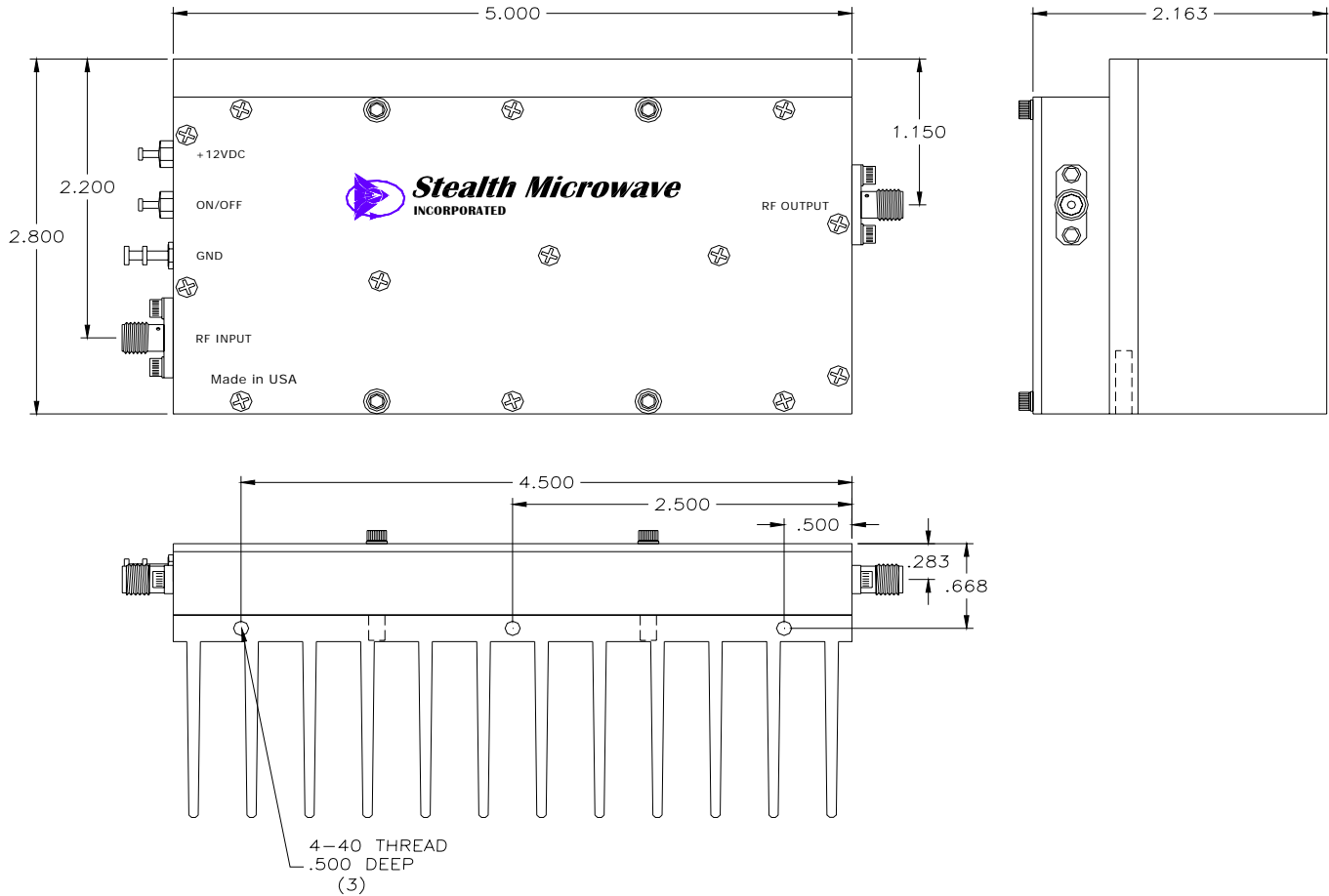
- Module
- Laboratory Unit
- 19" Rack Mount



| Parameter                                 | Specification                     |
|---|-----------------------------------|
| Frequency Range                           | 2.0 – 4.0 GHz                     |
| Pout (P1dB)                               | +37 dBm (min)                     |
| Output Third Order Intercept Point (OIP3) | +47 dBm (typ.)                    |
| Linear Gain                               | 37 $\pm$ 1.0 dB                   |
| Gain Flatness (over full band)            | $\pm .75$ dB                      |
| Input/Output Return Loss                  | -8 dB                             |
| DC Input Voltage                          | +12 Volts                         |
| DC Input Current                          | 2.9 Amperes                       |
| Mechanical Dimensions                     | 5.0 x 2.5 x .563 inches           |
| RF Connectors                             | SMA Female                        |
| Operating Temperature                     | 0°C to +55°C                      |
| Operating Humidity                        | 95% Non-condensing                |
| Operating Altitude                        | Up to 10,000 feet above Sea Level |

**DIMENSIONS IN INCHES**



**WITH HEATSINK OPTION**


| Pin     | Description                   | Values                       |
|---------|-------------------------------|------------------------------|
| RF IN   | Input Connector (SMA Female)  | + 4 dBm (max.)               |
| RF OUT  | Output Connector (SMA Female) | + 37 dBm @ P1dB              |
| GND     | Ground Turret                 | ---                          |
| +12 VDC | DC Input Voltage              | + 12 Volts @ 2.9 Amps.       |
| ON/OFF  | TTL Logic On/Off              | 0 Volts = Off, +5 Volts = On |

Specifications subject to change without notice.